

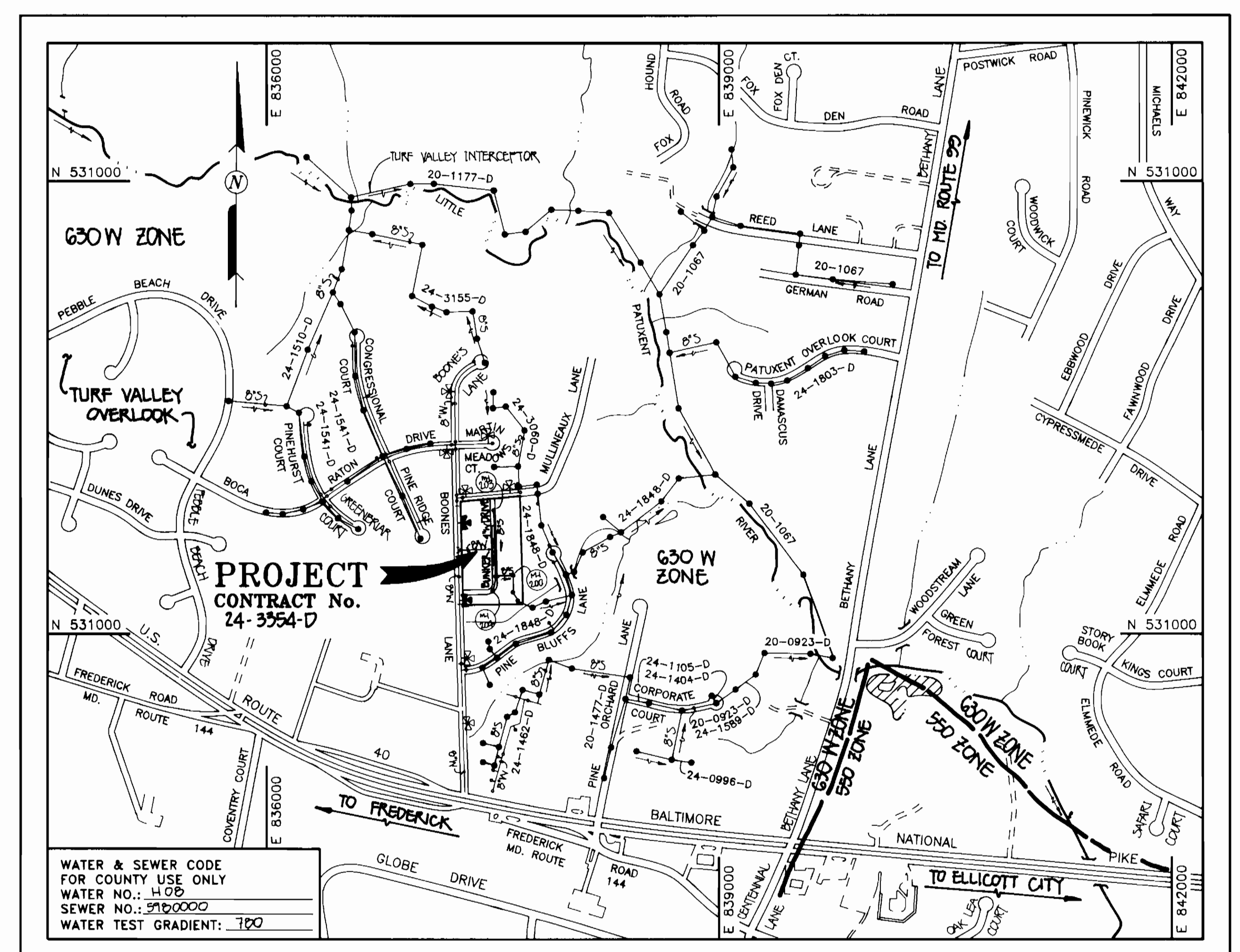
3354 ws/1 Pine Meadows @ Turf Valley

GENERAL NOTES

- APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM.
- ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL  AT THE LOCATION OF THE TEST PIT. A NOTE OR NOTES CONTAINING THE RESULTS OF THE TEST PIT OR PITS IS INCLUDED ON THE DRAWINGS. EXISTING UTILITIES IN THE VICINITY OF THE PROPOSED WORK FOR WHICH TEST PITS HAVE NOT BEEN DUG SHALL BE VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION - 531-5533
 - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - 850-4620
 - BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 787-9068
 - MISS UTILITY - 1-800-257-7777
 - COLONIAL PIPELINE CO. - 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - 313-4900
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- T.B. DENOTES TEST BORING.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G 5.52.
- WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G5.51.
- WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- ALL WATER MAINS SHALL BE D.I.P., CLASS 52 UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2' COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W1.11 AND W2.13). SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH ANWA SPECIFICATIONS C-153; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS FOR LAYING WATER/SEWER MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(g) OF THE HOWARD COUNTY CODE.

QUANTITIES				
ITEM	ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	SUPPLIER
8" SEWER	855 L.F.	821.5	SDR 35 DUL	J.M. MONUMENTAL
MANHOLES	7 EACH	7 EA	PRECAST/STD	ATLANTIC PRECAST
4" SEWER	405 L.F.	456 L.F.	SDR 35 DUL	J.M. MONUMENTAL
8" SEWER D.I.P.	85 L.F.	79 L.F.	DIP CL 52 TYP	GRIFFIN PIPE
8" WATER	200 L.F.	200 L.F.	" " " "	GRIFFIN PIPE
6" WATER	30 L.F.	37 L.F.	" " " "	GRIFFIN PIPE
4" WATER	409 L.F.	430 L.F.	" " " "	GRIFFIN PIPE
FIRE HYDRANTS	3 EACH	3 EA	AWWA C 502.85	MUELLER A-1
1" WHC	40 L.F.	35 L.F.	"K" TYPE 50	CERRO/COPPER/A-1
3/4" WHC	317 L.F.	275 L.F.	K TYPE	CERRO/COPPER/A-1
8" VALVE	2 EA	3 EA	R.S.G.U.	MUELLER CO/A-1
6" VALVE	3 EA	3 EA	R.S.G.U.	MUELLER CO/A-1
4" VALVE	2 EA	3 EA	R.S.G.U.	MUELLER CO/A-1

NAME OF UTILITY CONTRACTOR: FALLSTON UTILITIES
 SURVEY & DRAFTING DIVISION AS-BUILT DATE:



WATER & SEWER CODE FOR COUNTY USE ONLY
 WATER NO.: H08
 SEWER NO.: 3120000
 WATER TEST GRADIENT: .700

TYPE OF BUILDING: SINGLE FAMILY DETACHED
 NUMBER OF LOTS: 16 (15 BUILDABLE)
 NO. OF WATER HOUSE CONNECTIONS: 15
 NO. OF SEWER HOUSE CONNECTIONS: 15
 DRAINAGE AREA: LITTLE PATUXENT
 TREATMENT PLANT: PATUXENT WASTEWATER TREATMENT PLANT VIA THE ROUTE 100 PUMPING STATION

VICINITY MAP
 SCALE: 1"=600'

PLAN REFERENCE NUMBERS:
 P- 94-02
 F- 24-134

CONTRACT No. 24-3354-D PINE MEADOWS AT TURF VALLEY WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY HOWARD SOIL CONSERVATION DISTRICT.

APPROVED:  1/4/95
 HOWARD SOIL CONSERVATION DISTRICT DATE


SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN F-94-134 AND AS SHOWN ON THESE PLANS. REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.


 1/4/95
 U.S. SOIL CONSERVATION SERVICE DATE

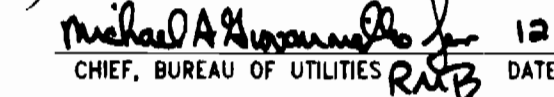
NOTE: ORIGINAL SHEET 3 OF 3 OF THESE PLANS; SIGNED BY THE DEPARTMENT OF PUBLIC WORKS ON JANUARY 11, 1995 HAS BEEN SUPERSEDED BY AN UPDATED ORIGINAL SHEET 3 OF 3. THE WATER & SEWER MAINS PROFILES TO { WITHIN BLINKERS DRIVE WERE REVISED AS A RESULT OF RE-GRADING OF THE PROJECT SITE.


CONTRACT NO. 24-3354-D
 PINE MEADOWS
 AT TURF VALLEY
 WATER AND SEWER EXTENSIONS
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

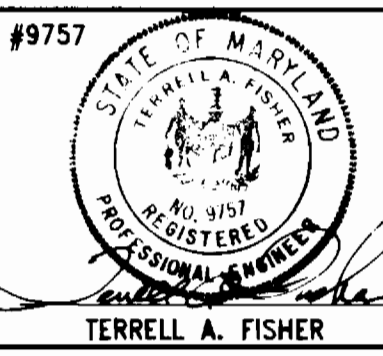
 1/14/95
 DIRECTOR OF PUBLIC WORKS DATE

 1/2/95
 CHIEF, BUREAU OF ENGINEERING DATE

 12/20/94
 CHIEF, BUREAU OF UTILITIES DATE

 1/4/95
 CHIEF, LAND DEVELOPMENT DIVISION DATE

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS &
 LAND SURVEYORS
 SUITE 100, 9171 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (301) 481 - 2855



DES:	M.J.M.	FCC	ADD NOTE RE: NEW SHEET 3	2/4/95
DRWN: <td>M.J.M. <td>FCC <td>REVISE 4" W QUANTITY <td>5/4/95</td> </td></td></td>	M.J.M. <td>FCC <td>REVISE 4" W QUANTITY <td>5/4/95</td> </td></td>	FCC <td>REVISE 4" W QUANTITY <td>5/4/95</td> </td>	REVISE 4" W QUANTITY <td>5/4/95</td>	5/4/95
CHK: <td>P.W.K. <td>K.E.L. <td>REVISE GENERAL NOTE NO. 11 <td>2/4/95</td> </td></td></td>	P.W.K. <td>K.E.L. <td>REVISE GENERAL NOTE NO. 11 <td>2/4/95</td> </td></td>	K.E.L. <td>REVISE GENERAL NOTE NO. 11 <td>2/4/95</td> </td>	REVISE GENERAL NOTE NO. 11 <td>2/4/95</td>	2/4/95
DATE:			AS-BUILT CONDITIONS ADDED TO PLAN <td>5/1/99</td>	5/1/99

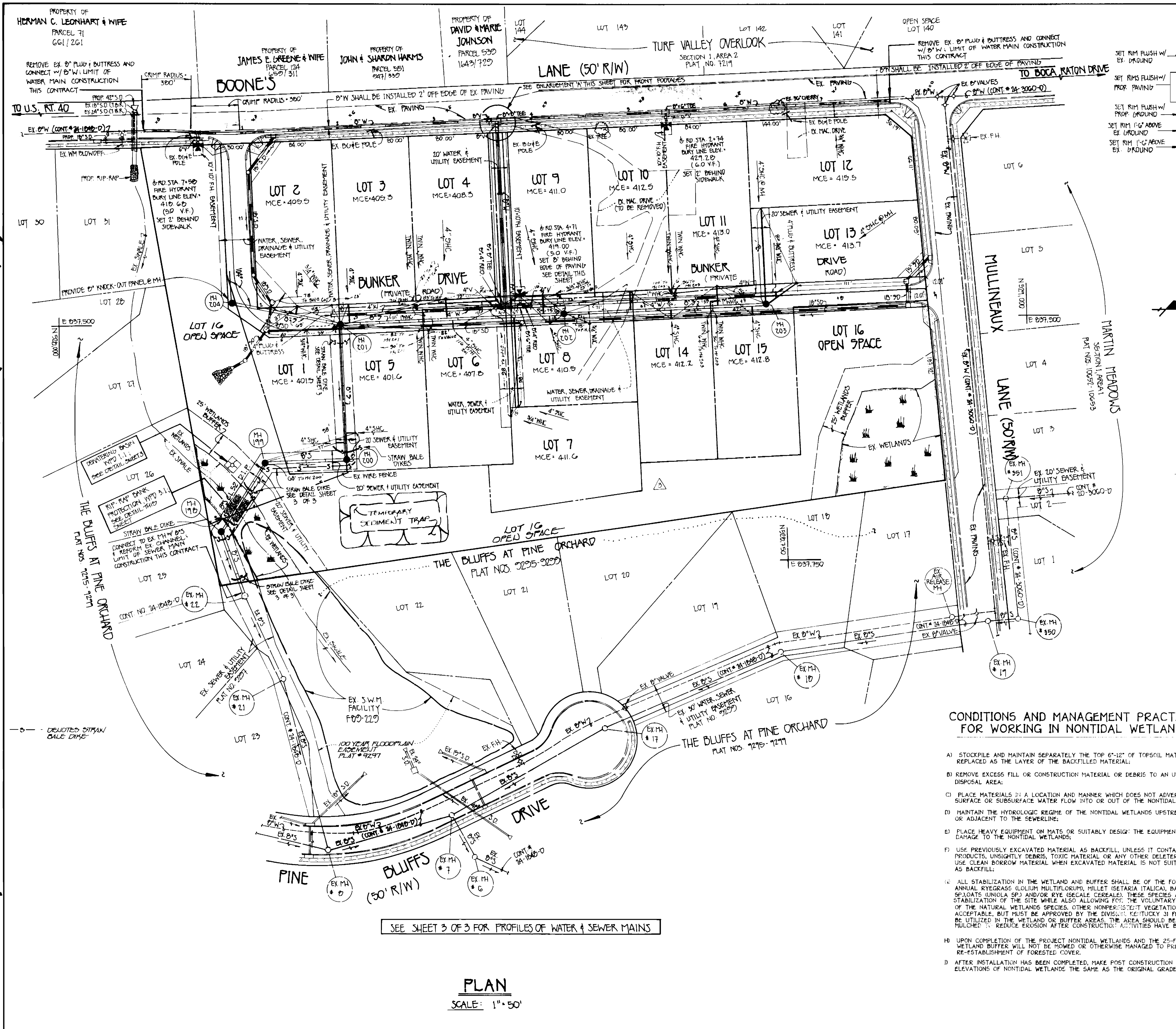
BY	NO.	REVISION	DATE

TITLE SHEET

PINE MEADOWS
 AT TURF VALLEY
 CONTRACT NO. 24-3354-D
 SECOND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 1 OF 3

3354 ws/2 Pine Meadows @ Turf Valley



MH TABULATION CHART

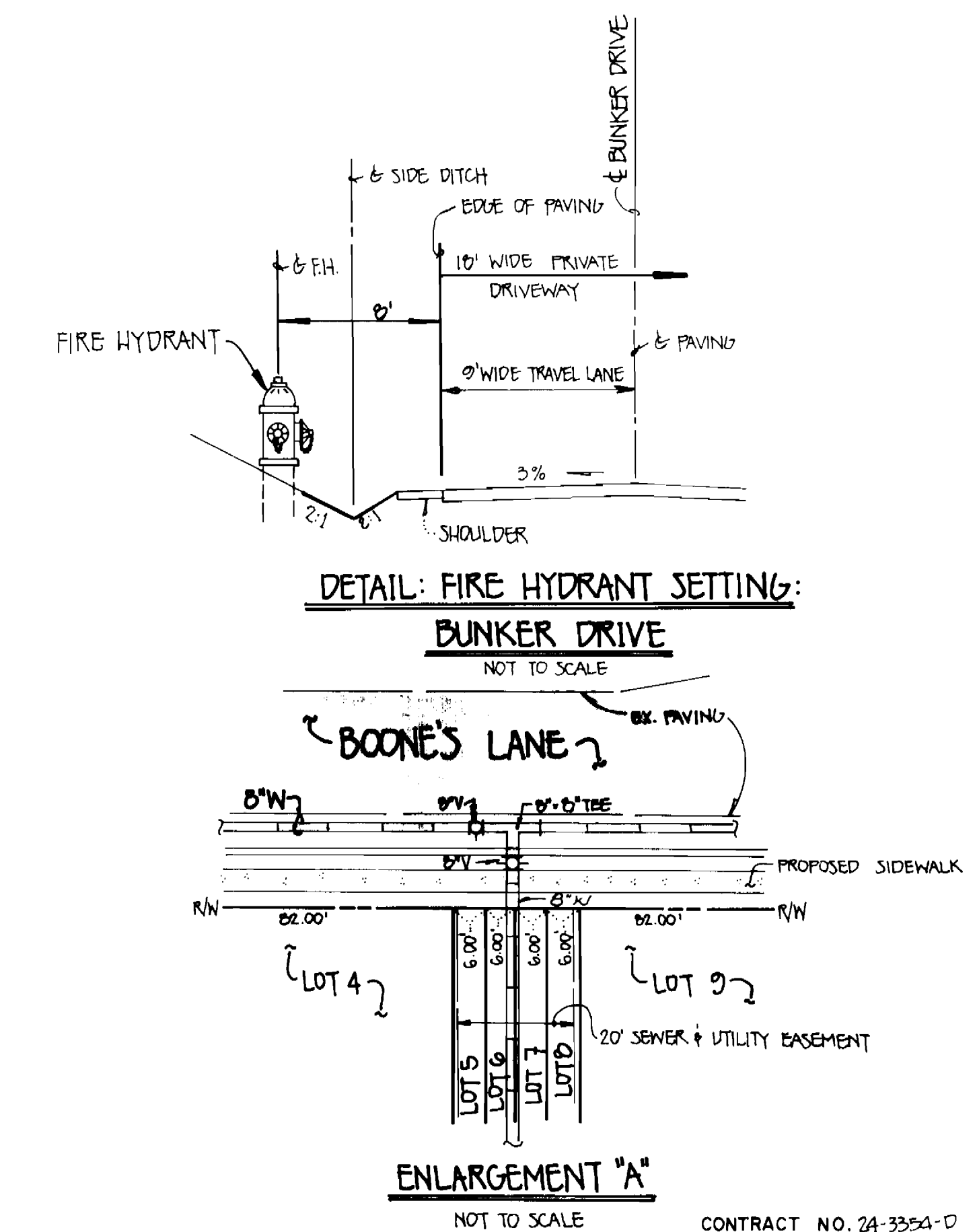
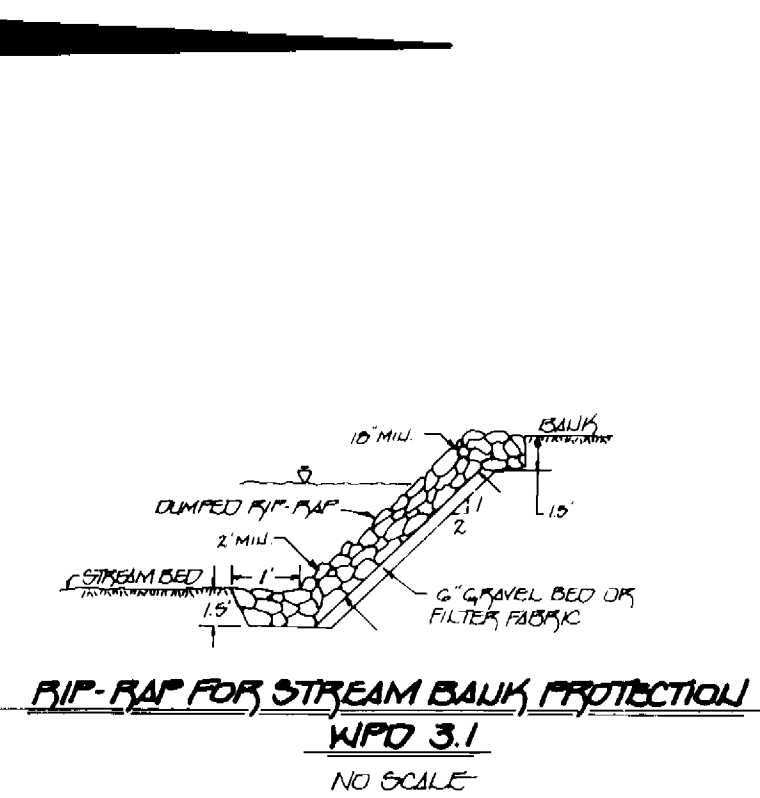
MH NO.	& RD STATION	DISTANCE	SLOPE	RIM ELEVATION
200				403.00
201	2+05	5' RT	+4.0%	410.41
202	5+16	5' RT	+1.0%	420.29
203	7+24	5' RT	-2.00%	418.02
204				406.50
198				398.50
199				401.50

SHC INVERTS @ 'P' CHART

STATION	LOT	ELEVATION
MH 200 TO MH 201		
0+20 LT	1	395.81
0+30 RT	5	396.11
MH 201 TO MH 202		
0+45 RT	2	399.69
MH 202 TO MH 203		
0+10 LT	3	399.85
1+10 LT	4	402.59
1+15 RT	6	402.59
1+20 RT	7	402.11
2+10 LT	9	405.45
2+15 RT	8	402.39
MH 202 TO MH 203		
0+30 RT	10	406.57
1+10 RT	14	406.66
1+60 LT	11	407.22
1+95 RT	15	407.27
2+10 LT	12, SHC @ MH	409.33
2+20 RT	13, SHC @ MH	408.13

WATER MAIN TABULATION CHART

& RD STATION	APURTENANCES	DISTANCE
2+74	8" G. F.H. TEE	12' LT.
2+74	6" VALVE	10' LT.
4+50	8" G. TEE	12' LT.
4+50	8" VALVE	10' LT.
4+50	8" VALVE	12' LT.
4+50	8" VALVE	12' LT.
4+72	8" G. F.H. TEE	5' LT.
4+72	6" VALVE	10' LT.
4+75	8" G. REDUCER	5' LT.
7+50	4" PLUG & BUTTRESS	5' LT.



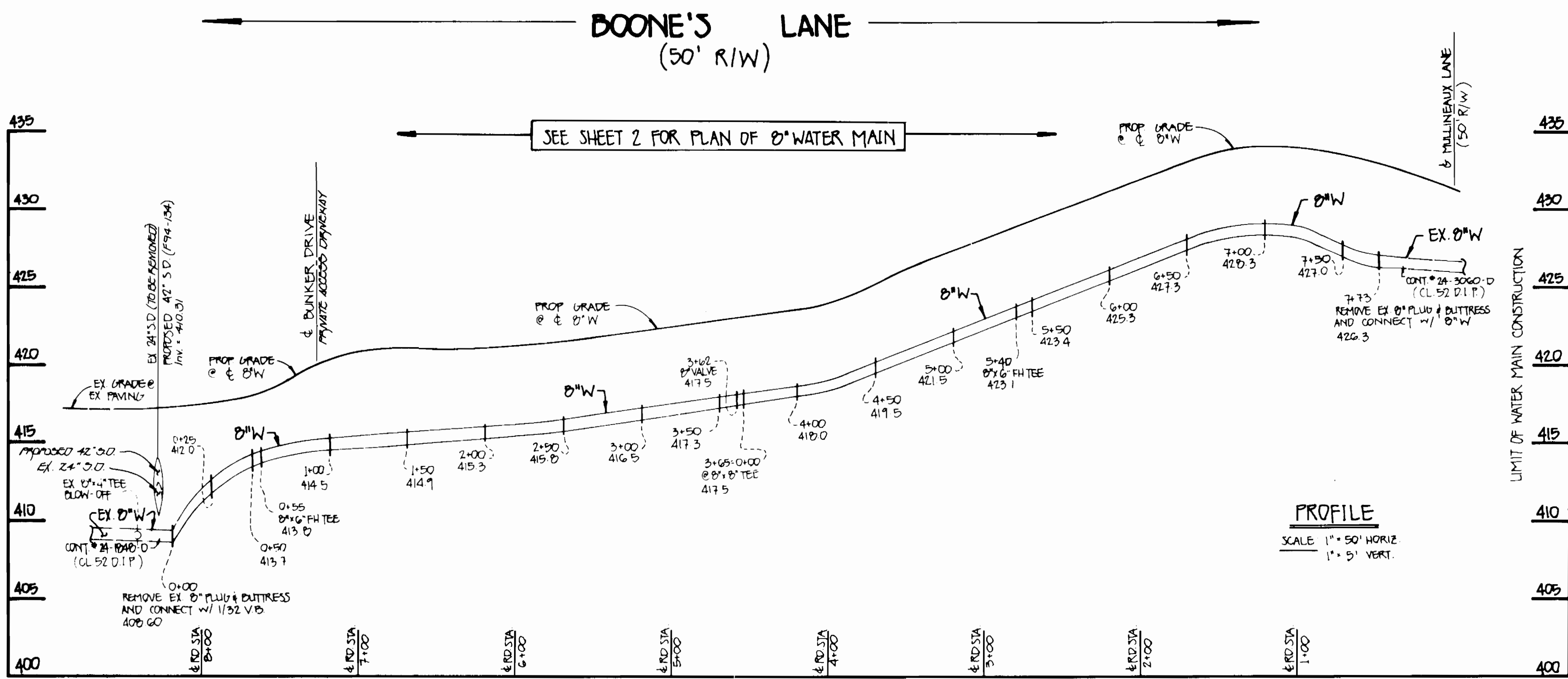
- CONDITIONS AND MANAGEMENT PRACTICES FOR WORKING IN NONTIDAL WETLANDS**
- STOCKPILE AND MAINTAIN SEPARATELY THE TOP 6"-12" OF TOPSOIL MATERIAL TO BE REPLACED AS THE LAYER OF THE BACKFILLED MATERIAL.
 - REMOVE EXCESS FILL OR CONSTRUCTION MATERIAL OR DEBRIS TO AN UPLAND DISPOSAL AREA.
 - PLACE MATERIALS IN A LOCATION AND MANNER WHICH DOES NOT ADVERSELY IMPACT SURFACE OR SUBSURFACE WATER FLOW INTO OR OUT OF THE NONTIDAL WETLAND.
 - MAINTAIN THE HYDROLOGIC REGIME OF THE NONTIDAL WETLANDS UPSTREAM, DOWNSTREAM, OR ADJACENT TO THE SEWERLINE.
 - PLACE HEAVY EQUIPMENT ON MATS OR SUITABLY DESIG. THE EQUIPMENT TO PREVENT DAMAGE TO THE NONTIDAL WETLANDS.
 - USE PREVIOUSLY EXCAVATED MATERIAL AS BACKFILL, UNLESS IT CONTAINS WASTE METAL PRODUCTS, UNSIGHTLY DEBRIS, TOXIC MATERIAL OR ANY OTHER DELETERIOUS SUBSTANCE. USE CLEAN BORROW MATERIAL WHEN EXCAVATED MATERIAL IS NOT SUITABLE FOR USE AS BACKFILL.
 - ALL STABILIZATION IN THE WETLAND AND BUFFER SHALL BE OF THE FOLLOWING SPECIES: ANNUAL RYEGRASS (LOLIUM MULTIFLORUM), MILLET (SETARIA ITALICA), BARLEY (HORDEUM SPICATUM LINDLERA SP) AND/OR RYE (SECALE CEREALE). THESE SPECIES ALLOW FOR THE STABILIZATION OF THE SITE WHILE ALSO ALLOWING FOR THE VOLUNTARY REVEGETATION OF THE NATURAL WETLANDS SPECIES. OTHER NONPERENNIAL VEGETATION MAY ALSO BE ACCEPTABLE, BUT MUST BE APPROVED BY THE DIVISION. KENTUCKY 31 PESTICIDE SHALL NOT BE UTILIZED IN THE WETLAND OR BUFFER AREAS. THE AREA SHOULD BE SEEDING AND MULCHED TO REDUCE EROSION AFTER CONSTRUCTION. ACTIVITIES HAVE BEEN COMPLETED.
 - UPON COMPLETION OF THE PROJECT NONTIDAL WETLANDS AND THE 25-FOOT NONTIDAL WETLAND BUFFER WILL NOT BE MOVED OR OTHERWISE MANAGED TO PREVENT THE RE-ESTABLISHMENT OF FORESTED COVER.
 - AFTER INSTALLATION HAS BEEN COMPLETED, MAKE POST CONSTRUCTION GRADES AND ELEVATIONS OF NONTIDAL WETLANDS THE SAME AS THE ORIGINAL GRADES AND ELEVATIONS.

SEE SHEET 3 OF 3 FOR PROFILES OF WATER & SEWER MAINS

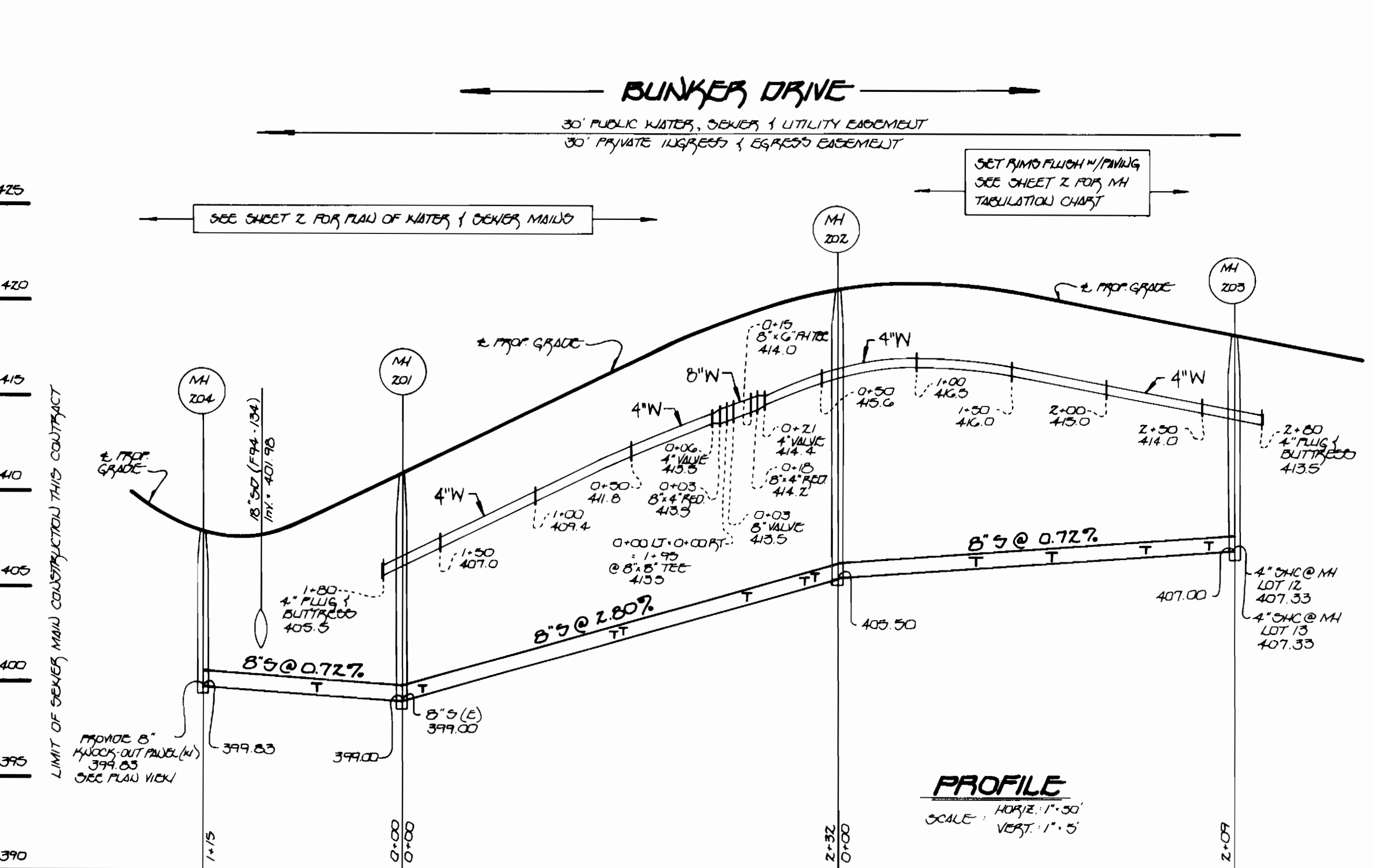
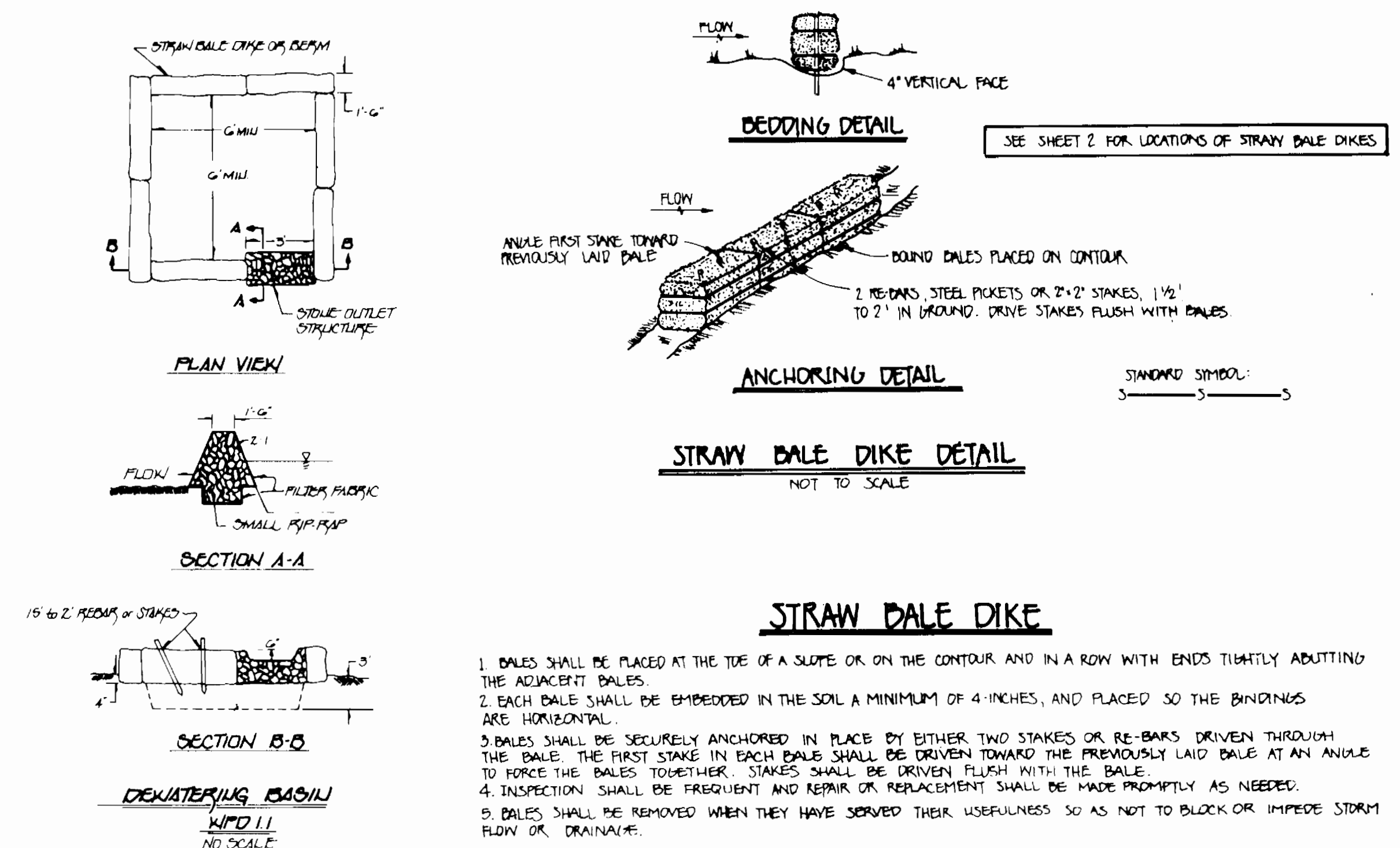
PLAN
 SCALE: 1" = 50'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>James J. Shaw</i> 1/16/25 Chief, Bureau of Engineering: <i>Robert J. ...</i> 1/2/25 Chief, Bureau of Utilities: <i>Michael A. ...</i> 12/29/24 Chief, Land Development Division: <i>...</i>		FISHER, COLLINS, AND CARTER, INC. #9757 CONSULTING ENGINEERS AND LAND SURVEYORS 9171 BALTIMORE NATIONAL PIKE, SUITE 100 ELLICOTT CITY, MARYLAND 21042 Terrell A. Fisher		DES: MJM DRN: MJM CHK: PWK DATE:		F.C.C. #1 REVISE RIM ELEVATIONS 5/4/20 F.C.C. #2 REVISE SHC INVERTS @ 'P' CHART 5/4/20 F.C.C. #3 REVISE M.C.E.'S & F.H. INFORMATION; OTHER 5/4/20 F.C.C. #4 REVISIONS IN PLANS VIEW 5/21/20 F.C.C. #5 "AS-BUILT" CONDITIONS SHOWN ON PLAN (WFS) 5/21/20		WATER & SEWER MAINS PLAN 600' SCALE MAP NO. 17 BLOCK NO. 19		PINE MEADOWS AT TURF VALLEY LOT NOS. 1-16 CONTRACT NO. 24-3354-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND		SCALE AS SHOWN SHEET 2 OF 3
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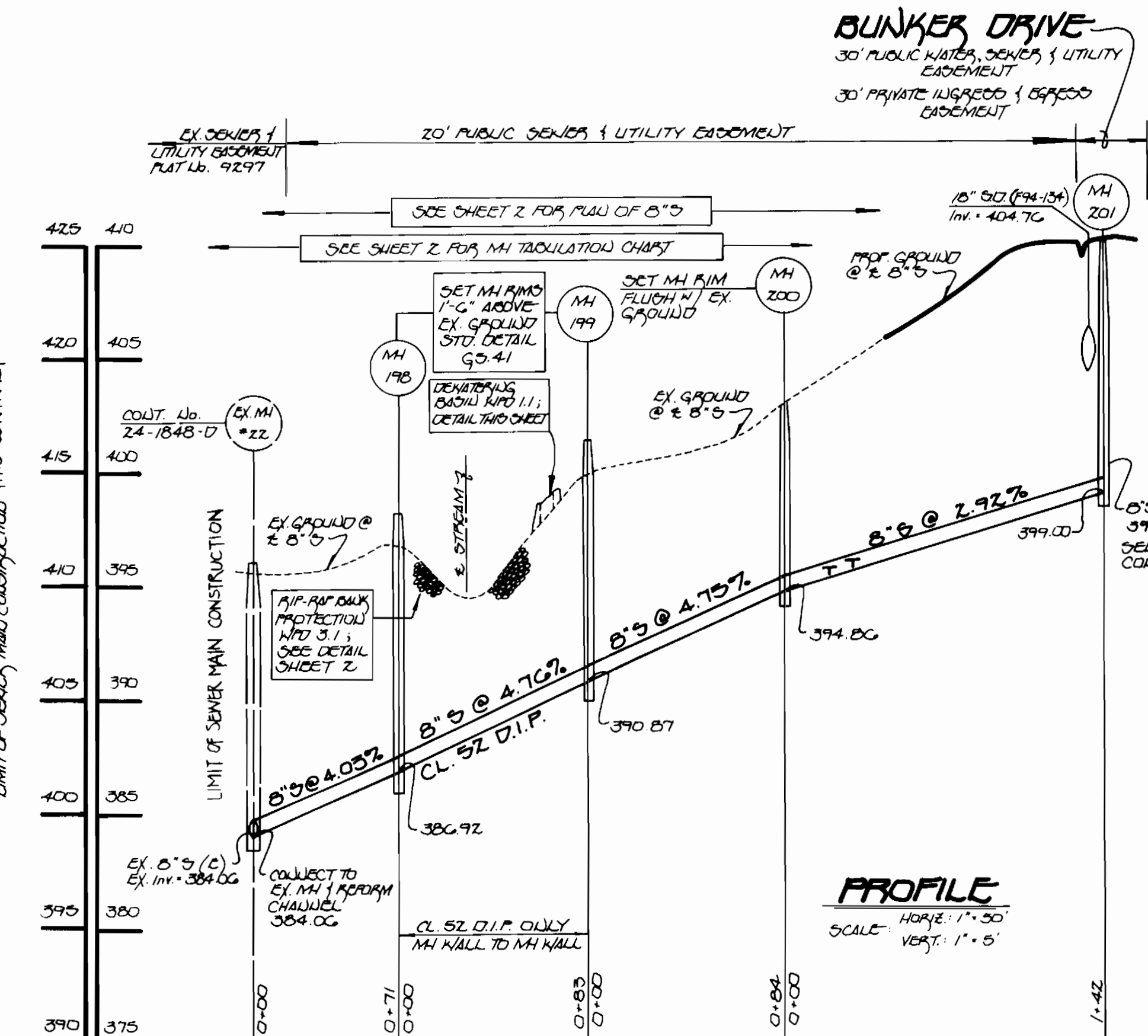
3354 ws/3 Pine Meadows @ Turf Valley



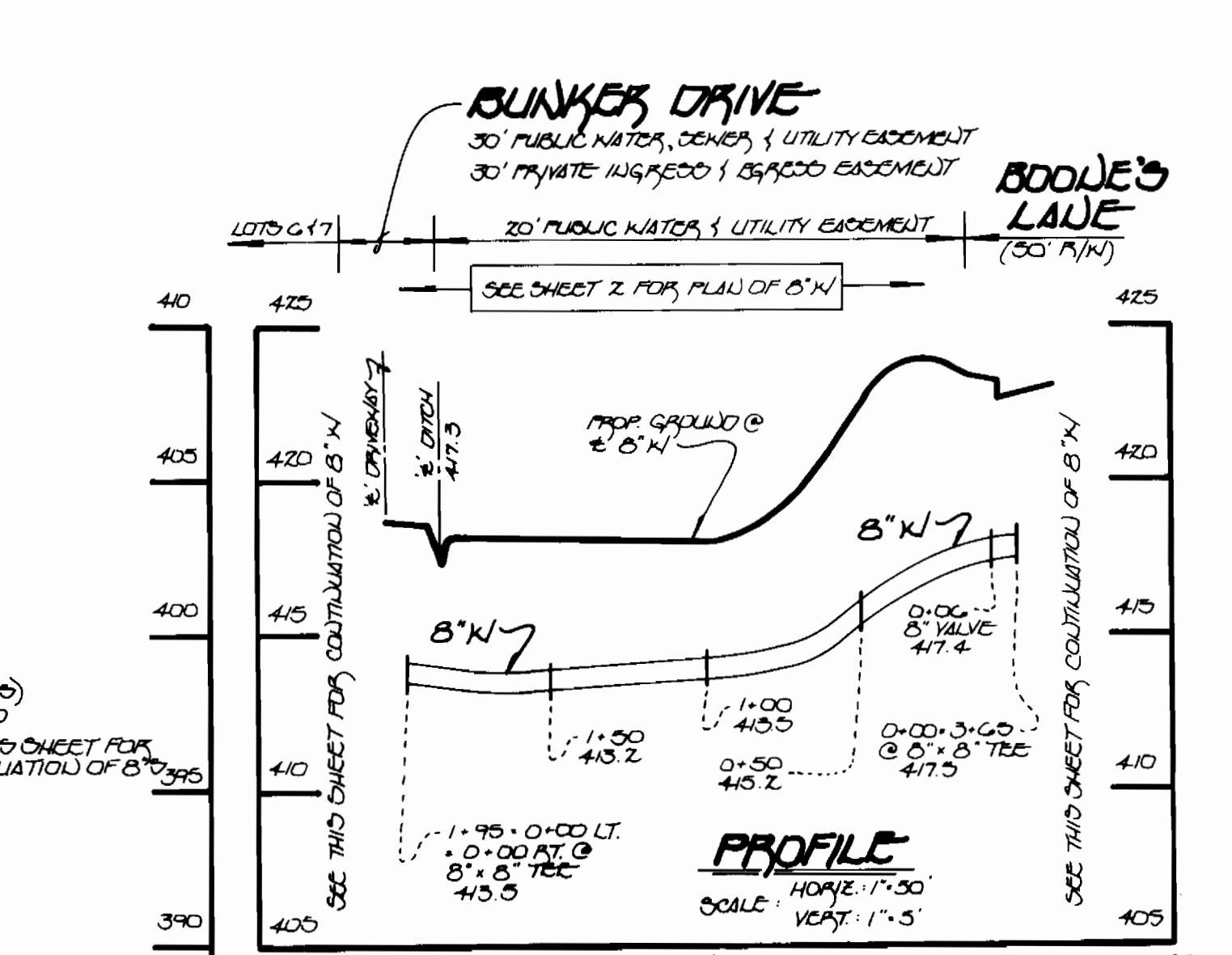
8-INCH WATER MAIN: BOONE'S LANE



WATER & SEWER MAINS: BUNKER DRIVE



8-INCH SEWER MAIN: BUNKER DRIVE TO EX. SEWER



8-INCH WATER MAIN: BOONE'S LANE TO BUNKER DRIVE

THIS SHEET 3 OF 3 SUPERSEDES ORIGINAL SHEET 3 OF 3 AS APPROVED BY THE DEPARTMENT OF PUBLIC WORKS ON JANUARY 11, 1995. THE WATER & SEWER MAIN PROFILES TO & WITHIN BUNKER DRIVE WERE REVISED AS A RESULT OF RE-GRADING OF THE PROJECT SITE.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
James A. Lewis 4/27/95
DIRECTOR OF PUBLIC WORKS
Robert R. Bennett 4-24-95
CHIEF, BUREAU OF UTILITIES

FISHER, COLLINS, AND CARTER, INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
1711 BALTIMORE NATIONAL PIKE, SUITE 100
ELLICOTT CITY, MARYLAND 21042
9757
Terrell A. Fisher

DES: MJM			
DRN: MJM			
CHK: PWK			
DATE: 04/20/95	BY: NO.	REVISION	DATE

WATER & SEWER MAINS
PROFILES & DETAILS
600 SCALE MAP NO. 17 BLOCK NO. 17

PINE MEADOWS AT TURF VALLEY
LOT NOS. 1-16
CONTRACT NO. 24-3354-D
SECOND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE AS SHOWN
SHEET 3 OF 3

CONTRACT NO. 24-3354-D
PINE MEADOWS @ TURF VALLEY
LOT NOS. 1-16
WATER AND SEWER MAIN EXTENSIONS
HOWARD COUNTY, MARYLAND